

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0001] of the application with the following replacement paragraphs:

This application claims the benefit of International Application No. PCT/EP2004/014851, filed on December 30, 2004, under 35 U.S.C. § 371 and/or as a continuation under 35 U.S.C. § 120, and German Application No. 103 61 645.4, filed on December 30, 2003.

Technical Field

[0001] This invention relates to a cooling system for the cooling of heat-producing devices in an aircraft.

Please replace paragraph [0002] of the application with the following replacement paragraph:

Background

[0002] In the interior of an aircraft, besides the aircraft's air-conditioning system there are a variety of different technical devices which produce heat and which, in order to guarantee safe function, must be cooled. For this reason, different cooling systems have been provided in aircrafts for a long time which are associated as individual solutions to the respective technical devices which are to be cooled. The provision of this type of individual systems requires relatively large amounts of structural space within the aircraft and there is little flexibility. Moreover, this type of individual systems often makes direct use of ambient air as a heat sink for the elimination of heat from the technical devices to be cooled. However, this leads to undesirable heating up of the interior of the aircraft.

Please replace paragraph [0005] of the application with the following replacement paragraph:

Summary of the Invention

[0005] This problem is solved by a cooling system for the cooling of heat producing devices in an aircraft which has a central cold producing device, at least one cold consumer and a cold conveyance system which connects the cold producing device and the cold consumer with each other, whereby the cold conveyance system has at least one cooling circuit which conveys a cooled cold carrier media from the cold producing device to the at least one cold consumer and back from this to the cold producing device, and whereby the at least one cold consumer is supplied with the cold produced in the cold producing device by means of the cold carrier medium circulating in the cooling circuit.

Please replace paragraph [0023] of the application with the following replacement paragraph:

Brief Description of the Drawings

[0023] In the following, versions of this invention are discussed with reference to the attached figures:

Please replace paragraph [0026] of the application with the following replacement paragraph:

Detailed Description

[0026] In the attached FIG. 1, a cooling system in accordance with the invention is shown is by 10. This includes a cold producing device 12, a cold conveyance system 14 and an area 16, in which cold is consumed.

Please replace paragraph [0034] of the application with the following replacement paragraph:

[0034] Control of the pumps 32 and 34 and of the check valves 29, 36, 38 can, for example, be carried out dependent upon pressure values which are measured at different points within the cold conveyance system 14, for example by a sensor 52 in the lines ~~line-s~~ 42. Moreover, each of the consumers 44, 46, 48 can have a temperature sensor whereby the different controllable components of the system, such as the cold machines 18, 20, the pumps 32 and 34, and the individual check valves 29, 36 and 38 can be controlled dependent upon the temperatures measured in the consumers 44, 46 and 48. It is clear to the man skilled in the art that parameters for the cold carrier medium can also be measured at a number of other points within the cooling system 10, such as temperature, pressure, flow speed etc., and the aforementioned controllable components of the cooling system 10 can be controlled with reference to the values measured.